

ELSEVIER

Carbohydrate Research 287 (1996) C3-C4

Author index

Bandwar, R.P. 157 Blaschke, G. 139 Bogulska, M. 91

Bøgwald, J. 225

Castronuovo, G. 127 Chankvetadze, B. 139 Chapelle, S. 37 Chapron, Y. 21 Coplin, D. 59 Crouzy, S. 21

Dabrowski, J. 91 Dabrowski, U. 91 Debouzy, J.-C. 21 Domke, T. 59

Čudić, M. 1

Edebrink, P. 225 Elia, V. 127 Elofsson, M. 1 Endresz, G. 139

Fauvelle, F. 21 Fessas, D. 127 Fritzell, T.H. 77 Furneaux, R.H. 101

Geider, K. 59 Gigg, J. 263 Gigg, R. 263 Göschl, M. 21 Gradnig, G. 49 Gray, J.S.S. 203

Hemmingson, J.A. 101 Hoffman, J. 225 Horvat, J. 1 Horvat, Š. 1 Hubbard, R.E. 247 Jakubetz, H. 139 Jansson, P.-E. 225 Jenkins, D.J. 169 Juza, M. 139

Katzenellenbogen, E. 91 Kihlberg, J. 1 Kimura, A. 255 Kitahata, S. 213 Klaveness, J. 77 Koizumi, K. 213 Kojić-Prodić, B. 1 Krishnakumar, R.V. 117

Legler, G. 49

Manley-Harris, M. 183 Matulová, M. 37 Milinković, V. 1 Moll, H. 123 Montana, J.G. 247 Montgomery, R. 203 Moriyón, I. 123 Mort, A. 59 Murphy, P.V. 247 Murray-Brown, V.H. 101

Nasu, A. 271 Natarajan, S. 117 Nimtz, M. 59

Oguma, T. 271 Okada, Y. 213

Potter, B.V.L. 169

Qiu, F. 59

Rao, C.P. 157 Richards, G.N. 183

Author index

Robyt, J.F. 255 Romanowska, E. 91 Rongved, P. 77

Schurig, V. 139 Strande, P. 77 Stütz, A.E. 49

Taylor, R.J.K. 247 Tobe, K. 271

Uchida, R. 271

Velasco, J. 123 Velleca, F. 127 Verchère, J.-F. 37 Vinogradov, E.V. 123 Viscardi, G. 127

Wray, V. 59

Yamaji, N. 271 Yang, B.Y. 203

Zähringer, U. 123 Zhang, Y. 59

Subject index

2-Acetamido-1.2-dideoxynoiirimycin

A novel approach to the 1-deoxynojirimycin system: synthesis from sucrose of 2-acetamido-1,2-dideoxynojirimycin, as well as some 2-N-modified derivatives 49

Acyloxymethyl esters

The one-pot esterification of phosphoric acids with silver carbonate and alkyl halides in refluxing toluene 263

Adenophostin

A Ca²⁺-mobilising carbohydrate-based polyphosphate: synthesis of 2-hydroxyethyl α-Dglucopyranoside 2',3,4-trisphosphate 169

Agar polysaccharides

Biosynthesis of agar polysaccharides in Gracilaria chilensis Bird, McLachlan et Oliveira 101

Amino acid

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-α-D-galactopyranose moiety |

Amino acid complexes

Crystal structure of an adduct of sarcosine with sucrose 117

Amino acid linker

Polysaccharides as carriers for magnetic resonance imaging contrast agents: synthesis and stability of a new amino acid linker derivative 77

Biodegradable phosphate esters

The one-pot esterification of phosphoric acids with silver carbonate and alkyl halides in refluxing toluene 263

Biosynthesis

Biosynthesis of agar polysaccharides in Gracilaria chilensis Bird, McLachlan et Oliveira 101

Calorimetry

Thermodynamics of the interaction of αcyclodextrin with monocarboxylic acids in aqueous solutions: a calorimetric study at 25 °C 127

Capillary electrophoresis (CE)

Analysis of charged cyclomalto-oligosaccharides (cyclodextrin) derivatives by ion-spray, matrix-assisted laser-desorption/ionization time-of-flight and fast-atom bombardment mass spectrometry, and by capillary electrophoresis 139

Chlorosulfonyl group

Glycosylation reactions of 2,3,4-tri-O-chlorosulfonyl-β-L-fucopyranosyl chloride and 2,3,4tri-O-chlorosulfonyl-β-D-xylopyranosyl chloride 247

¹³C Labelling

Biosynthesis of agar polysaccharides in Gracilaria chilensis Bird, McLachlan et Oliveira 101

13C NMR

Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-t-manno-heptone 37

Contrast agents

Polysaccharides as carriers for magnetic resonance imaging contrast agents: synthesis and stability of a new amino acid linker derivative 77

Cyclodextrin

Investigation of the α-cyclodextrin-myo-inositol phosphate inclusion complex by NMR spectroscopy and molecular modeling 21

α-Cyclodextrin

Thermodynamics of the interaction of acyclodextrin with monocarboxylic acids in aqueous solutions: a calorimetric study at 25 °C 127

Cyclodextrin derivatives

Analysis of charged cyclomalto-oligosaccharides (cyclodextrin) derivatives by ion-spray, matrix-assisted laser-desorption/ionization time-of-flight and fast-atom bombardment mass spectrometry, and by capillary electrophoresis 139

Cyclomaltodextrinase

A convenient preparation of maltooctaose and maltononaose by the coupling reaction of cyclomaltodextrinase 271

Cyclomaltohexaose (αCD), heterogeneous doubly branched

Isolation by HPLC of the positional isomers of heterogeneous doubly branched cyclomalto-hexaose having one α -D-galactosyl and one α -D-glucosyl side chain and determination of their structures by enzymatic degradation 213

1-Deoxynojirimycin

A novel approach to the 1-deoxynojirimycin system: synthesis from sucrose of 2-acetamido-1,2-dideoxynojirimycin, as well as some 2-Nmodified derivatives 49

Dipeptide

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-α-D-galactopyranose moiety l

Enzymatic degradation

Isolation by HPLC of the positional isomers of heterogeneous doubly branched cyclomalto-hexaoue having one α-D-galactosyl and one α-D-glucosyl side chain and determination of their structures by enzymatic degradation 213

Enzymatic synthesis

A convenient preparation of maltooctaose and maltononaose by the coupling reaction of cyclomaltodextrinase 271

ESIMS

Analysis of charged cyclomalto-oligosaccharides (cyclodextrin) derivatives by ion-spray, matrix-assisted laser-desorption/ionization time-of-flight and fast-atom bombardment mass spectrometry, and by capillary electrophoresis 139

FABMS

Analysis of charged cyclomalto-oligosaccharides (cyclodextrin) derivatives by ion-spray, matrix-assisted laser-desorption/ionization time-of-flight and fast-atom bombardment mass spectrometry, and by capillary electrophoresis 139

Fructose dianhydrides

Di-D-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose 183

L-Fucose

Glycosylation reactions of 2,3,4-tri-O-chlorosulfonyl-β-L-fucopyranosyl chloride and 2,3,4tri-O-chlorosulfonyl-β-D-xylopyranosyl chloride 247

Galactopyranose

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-α-D-galactopyranone moiety l

Gelatinized starch granules

Reaction of enzymes with starch granules: reaction of isoamylase with native and gelatinized granules 255

GLC-MS spectroscopy

Determination of the O-specific polysaccharide structure in the lipopolysaccharide of *Ochro*bactrum anthropi LMG 3331 123

Glycan

The glycans of horseradish peroxidase 203

Glycosidase inhibitors

A novel approach to the 1-deoxynojirimycin system: synthesis from sucrose of 2-acetamido-1,2-dideoxynojirimycin, as well as some 2-Nmodified derivatives 49

Glycosylation

Glycosylation reactions of 2,3,4-tri-O-chlorosulfonyl-β-L-fucopyranosyl chloride and 2,3,4tri-O-chlorosulfonyl-β-D-xylopyranosyl chloride 247

Glycosyl chloride

Glycosylation reactions of 2,3,4-tri-O-chlorosulfonyl-β-L-fucopyranosyl chloride and 2,3,4tri-O-chlorosulfonyl-β-D-xylopyranosyl chloride 247

Gracilaria chilensis

Biosynthesis of agar polysaccharides in Gracilaria chilensis Bird, McLachlan et Oliveira 101

D-glycero-L-manno-Heptose

Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose 37

Horseradish peroxidase

The glycans of horseradish peroxidase 203

HPLC

Isolation by HPLC of the positional isomers of heterogeneous doubly branched cyclomalto-

hexaose having one α -D-galactosyl and one α -D-galactosyl side chain and determination of their structures by enzymatic degradation 213

Inclusion

Thermodynamics of the interaction of α-cyclodextrin with monocarboxylic acids in aqueous solutions: a calorimetric study at 25 °C 127

Inclusion complex

Investigation of the α-cyclodextrin-myo-inositol phosphate inclusion complex by NMR spectroscopy and molecular modeling 21

Inositol phosphates

A Ca²⁺-mobilising carbohydrate-based polyphosphate: synthesis of 2-hydroxyethyl α-Dglucopyranoside 2',3,4-trisphosphate 169 The one-pot esterification of phosphoric acids with silver carbonate and alkyl halides in re-

fluxing toluene 263 Inulin thermolysis

Di-D-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose 183

Isoamylase

Reaction of enzymes with starch granules: reaction of isoamylase with native and gelatinized granules 255

Lipopolysaccharide

Determination of the O-specific polysaccharide structure in the lipopolysaccharide of *Ochro*bactrum anthropi LMG 3331 123

Structural studies of the Vibrio salmonicida lipopolysaccharide 225

Magnetic resonance imaging

Polysaccharides as carriers for magnetic resonance imaging contrast agents: synthesis and stability of a new amino acid linker derivative 77

MALDITOF

The glycans of horseradish peroxidase 203

MALDITOFMS

Analysis of charged cyclomalto-oligosaccharides (cyclodextrin) derivatives by ion-spray, matrix-assisted laser-desorption/ionization time-of-flight and fast-atom bombardment mass spectrometry, and by capillary electrophoresis 139

Maltononaose

A convenient preparation of maltooctaose and maltononaose by the coupling reaction of cyclomaltodextrinase 271

Maltooctaose

A convenient preparation of maltooctaose and maltononaose by the coupling reaction of cyclomaltodextrinase 271

Maltone-Mn(II) complex

Transition-metal-saccharide chemistry: synthesis and characterisation of D-galactose, D-fructose, D-glucose, D-xylose, D-ribose, and maltose complexes of Mn(II) 157

Methylation analysis

The glycans of horseradish peroxidase 203

Mn(II) complexes

Transition-metal-saccharide chemistry: synthesis and characterisation of D-galactose, D-fructose, D-glucose, D-xylose, D-ribose, and maltose complexes of Mn(II) 157

Modification of starch granules

Reaction of enzymes with starch granules: reaction of isoamylase with native and gelatinized granules 255

Molecular dynamics

Investigation of the α-cyclodextrin-myo-inositol phosphate inclusion complex by NMR spectroscopy and molecular modeling 21

Molybdate complexes

Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose 37

Monocarboxylic acids

Thermodynamics of the interaction of accyclodextrin with monocarboxylic acids in aqueous solutions: a calorimetric study at 25 °C 127

Monosaccharide-Mn(II) complexes

Transition-metal-saccharide chemistry: synthesis and characterisation of D-galactose, D-fructose, D-glucose, D-xylose, D-ribose, and maltose complexes of Mn(II) 157

Myo-inositol 2-phosphate

Investigation of the α-cyclodextrin-myo-inositol phosphate inclusion complex by NMR spectroscopy and molecular modeling 21

Native starch granules

Reaction of enzymes with starch granules: reaction of isoamylase with native and gelatinized granules 255

N-glycation

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-α-D-galactopyranone moiety l

N-linked oligosaccharides

The glycans of horseradish peroxidase 203

NMR

Structural studies of the Vibrio salmonicida lipopolysaccharide 225

NMR spectroscopy

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-α-D-galactopyranose moiety I

Investigation of the a-cyclodextrin-myo-inositol phosphate inclusion complex by NMR spectroscopy and molecular modeling 21

Determination of the O-specific polysaccharide structure in the lipopolysaccharide of Ochrobactrum anthropi LMG 3331 123

Nonulosonic acid

Structural studies of the Vibrio salmonicida lipopolysaccharide 225

Ochrobactrum anthropi

Determination of the O-specific polysaccharide structure in the lipopolysaccharide of *Ochro*bactrum anthropi LMG 3331 123

Piperazinedione

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-α-D-galactopyranose moiety l

Polysaccharides

Polysaccharides as carriers for magnetic resonance imaging contrast agents: synthesis and stability of a new amino acid linker derivative 77

Positional isomer, separation

Isolation by HPLC of the positional isomers of heterogeneous doubly branched cyclomalto-hexaose having one α-D-galactosyl and one α-D-glucosyl side chain and determination of their structures by enzymatic degradation 213

Salmon

Structural studies of the Vibrio salmonicida lipopolysaccharide 225

Sarcosine

Crystal structure of an adduct of sarcosine with sucrose 117

Second messenger

A Ca²⁺-mobilising carbohydrate-based polyphosphate: synthesis of 2-hydroxyethyl α-Dglucopyranoside 2',3,4-trisphosphate 169

Selective protection

A Ca²⁺-mobilising carbohydrate-based polyphosphate: synthesis of 2-hydroxyethyl α-Dglucopyranoside 2',3,4-trisphosphate 169

Silver carbonate

The one-pot esterification of phosphoric acids with silver carbonate and alkyl halides in refluxing toluene 263

Single crystal

Crystal structure of an adduct of sarcosine with sucrose 117

O-Specific polysaccharide

Determination of the O-specific polysaccharide structure in the lipopolysaccharide of Ochrobactrum anthropi LMG 3331 123

Stability

Polysaccharides as carriers for magnetic resonance imaging contrast agents: synthesis and stability of a new amino acid linker derivative 77

Stannylene

A Ca²⁺-mobilising carbohydrate-based polyphosphate: synthesis of 2-hydroxyethyl α-Dglucopyranoside 2',3,4-trisphosphate 169

Structural analysis

Isolation by HPLC of the positional isomers of heterogeneous doubly branched cyclomalto-hexaose having one α -D-galactosyl and one α -D-glucosyl side chain and determination of their structures by enzymatic degradation 213

Structure

Structural studies of the Vibrio salmonicida lipopolysaccharide 225

Sucrose

A novel approach to the 1-deoxynojirimycin system: synthesis from sucrose of 2-acetamido-1,2-dideoxynojirimycin, as well as some 2-Nmodified derivatives 49

Crystal structure of an adduct of sarcosine with sucrose 117

Sucrose thermolysis

Di-D-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose 183

Thermolysis of sugars

Di-D-fructose dianhydrides and related oligomers from thermal treatments of inulin and sucrose 183

Tungstate complexes

Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose 37

183 W NMR, Furanose forms

Furanose vs. acyclic forms of carbohydrate ligands. A multinuclear NMR spectroscopy study of the molybdate and tungstate complexes of D-glycero-L-manno-heptose 37

X-ray

Crystal structure of an adduct of sarcosine with sucrose 117

X-ray structure

Preparation and structural characterization of N-glycated amino acid and linear or cyclic dipeptides containing the 6-amino-6-deoxy-1,2:3,4-di-O- isopropylidene-o-D-galactopyranose moiety |

D-Xylose

Glycosylation reactions of 2,3,4-tri-O-chlorosulfonyl-β-t-fucopyranosyl chloride and 2,3,4tri-O-chlorosulfonyl-β-D-xylopyranosyl chloride 247



